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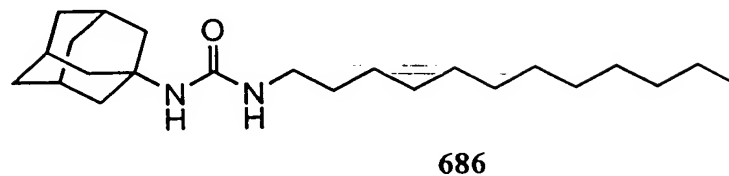
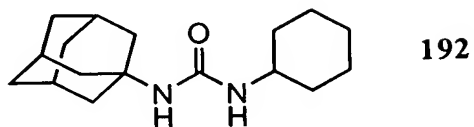
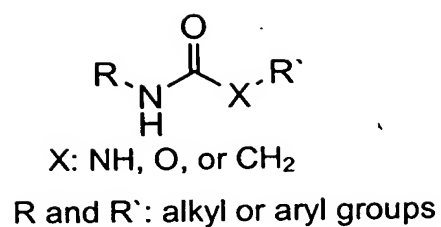
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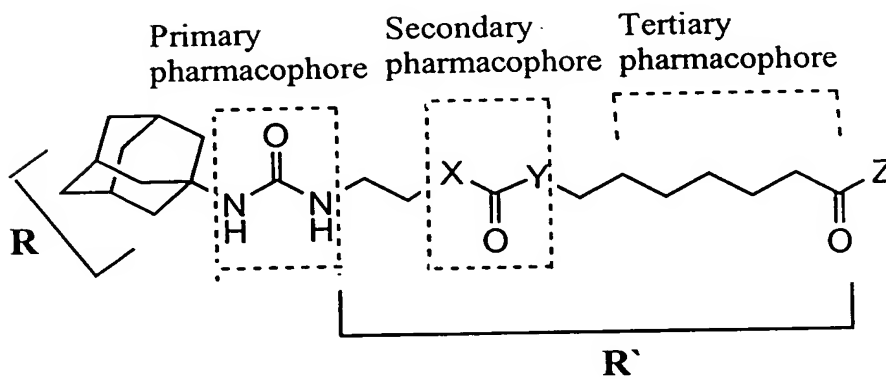
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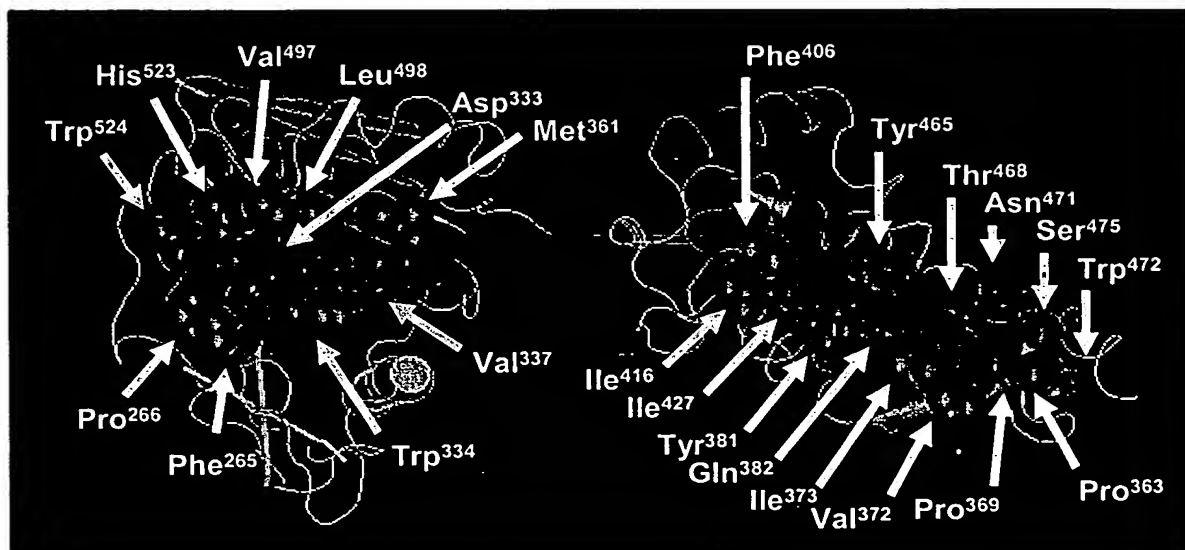
**Figure 1**



**Figure 2**



**Figure 3**



## Figure 4

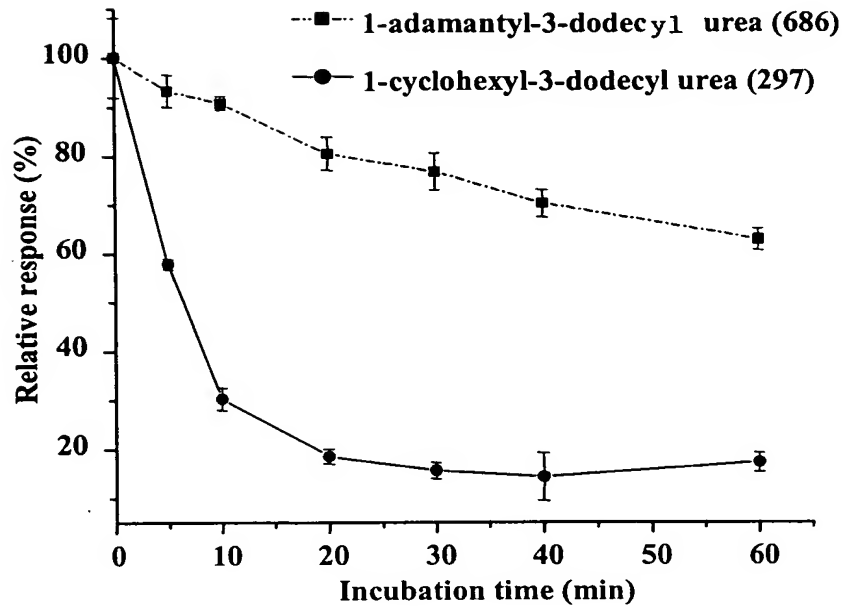
Human sEH (JC4711)	MTLRGAVFDLDGVLALPAVFGVLGRTEEALALRGLLNDAA	40
Rat sEH (P80299)	MA LRVA AF DLDGVLALPSIAGVLRHTEEALALRDFLLGA	40
Mouse liver sEH (AAA37555)	MA LRVA AF DLDGVLALPSIAGAFRRSEALALRDFLLGA	40
Mouse ovary sEH (AAM28238)	M-----RFAAMAAFSVFFVSKGLLMNS	22
Human sEH (JC4711)	FQKGGPEGATTRLMKGEITLSQWIPLMEENCRKCSSETAKV	80
Rat sEH (P80299)	FQMKFPPEGPTQLMKGKITFSQWVPLMDESCRKSSKACGA	80
Mouse liver sEH (AAA37555)	YQTEFPPEGPTQLMKGKITFSQWVPLMDESYRKSSKACGA	80
Mouse ovary sEH (AAM28238)	NIWCVGQEGPSQEDTDTIHTSEWVPLMDESYRKSSKACGA	62
Human sEH (JC4711)	CLPKNFSIKEIFDKAISARKINRPMLQAAALMLRKKGFTTA	120
Rat sEH (P80299)	SLPENFSISEIFSQAMAAARSINRPMLQAAAALKKKGFTTC	120
Mouse liver sEH (AAA37555)	NLPENFSISQIFSQAMAAARSINRPMLQAAIALKKKGFTTC	120
Mouse ovary sEH (AAM28238)	NLPENFSISQIFSQAMAAARSINRPMLQAAIALKKKGFTTC	102
Human sEH (JC4711)	ILTNNTWLD DRAERDGLAQLMCELEKMHFDFLIESCQVGMVK	160
Rat sEH (P80299)	IVTNNWLD DSDKRDILAQMMCELSQHFDFLIESCQVGMVK	160
Mouse liver sEH (AAA37555)	IVTNNWLD DGDKRDSLQMMCELSQHFDFLIESCQVGMVK	160
Mouse ovary sEH (AAM28238)	IVTNNWLD DGDKRDSLQMMCELSQHFDFLIESCQVGMVK	142
Human sEH (JC4711)	PEPQIYKFLDLTLKASPSSEVVFLDDIGANLKPARDLGMVLT	200
Rat sEH (P80299)	PEPQIYKFVLDLTLKAKPNSEVVFLDDFGSNLKPARDMGMVLT	200
Mouse liver sEH (AAA37555)	PEPQIYNFLDLTLKAKPNSEVVFLDDFGSNLKPARDMGMVLT	200
Mouse ovary sEH (AAM28238)	PEPQIYNFLDLTLKAKPNSEVVFLDDFGSNLKPARDMGMVLT	182
Human sEH (JC4711)	ILVQD TDTALKELEKVTGIQLLNT P APLPTSCNPSDM SHG	240
Rat sEH (P80299)	ILVRDTASALRELEKVTGTQFPEAPLPVP CSPN - - DV SHG	238
Mouse liver sEH (AAA37555)	ILVHNTASALRELEKVTGTQFPEAPLPVP CNPN - - DV SHG	238
Mouse ovary sEH (AAM28238)	ILVHNTASALRELEKVTGTQFPEAPLPVP CNPN - - DV SHG	220
Human sEH (JC4711)	YVTVKPRVRLHFVELGSGPAVCLCHGFPESWYYSWRYQIPA	279
Rat sEH (P80299)	YVTVKPGIRLHFVEMGSGPAICLCHGFPESWYYSWRYQIPA	278
Mouse liver sEH (AAA37555)	YVTVKPGIRLHFVEMGSGPALCLCHGFPESWYYSWRYQIPA	278
Mouse ovary sEH (AAM28238)	YVTVKPGIRLHFVEMGSGPALCLCHGFPESWYYSWRYQIPA	260
Human sEH (JC4711)	LAQAAGYRVLAIDMKGYGESSAPPEIEEYCM EVLCKEMVTF	319
Rat sEH (P80299)	LAQAAGFRVLAIDMKGYGESSAPPEIEEYAMEL LCKEMVTF	318
Mouse liver sEH (AAA37555)	LAQAAGFRVLAIDMKGYGESSAPPEIEEYAMEL LCKEMVTF	318
Mouse ovary sEH (AAM28238)	LAQAAGFRVLAIDMKGYGESSAPPEIEEYAMEL LCKEMVTF	300
† †		
Human sEH (JC4711)	LDKLGLSQAVFIGHDWAGMLVWYMA LFYPERVRAVASLNT	359
Rat sEH (P80299)	LNKLGIPQAVFIGHDWAGVLVWNMA LFHPERVRAVASLNT	358
Mouse liver sEH (AAA37555)	LDKLGIPQAVFIGHDWAGVMVWNMA LFYPERVRAVASLNT	358
Mouse ovary sEH (AAM28238)	LDKLGIPQAVFIGHDWAGVMVWNMA LFYPERVRAVASLNT	340

Protein sequences obtained from the NCBI database (accession numbers) showing identical (black) and homologous (gray) residues in the mammalian proteins. Sites for primary (†), secondary (‡) and tertiary (°) pharmacophores are indicated above each sequence.

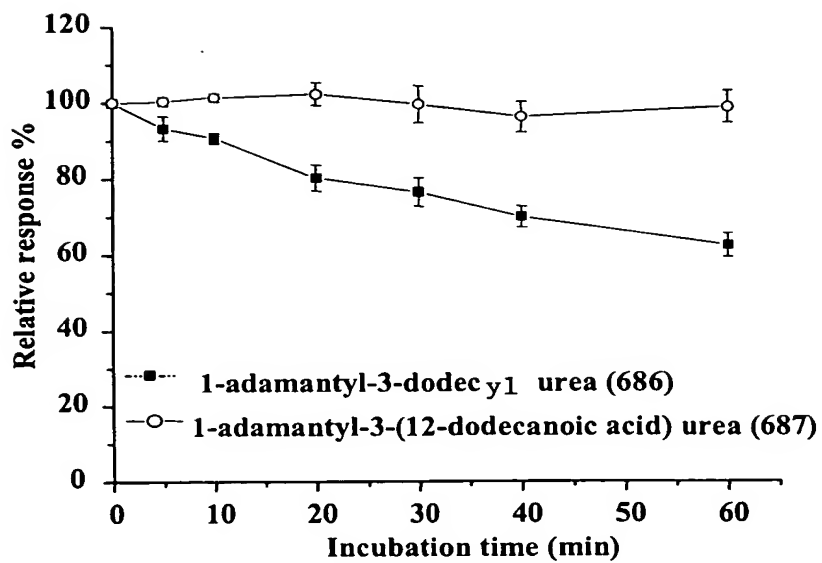
Human sEH (JC4711)	PFI	PAN	PNM	SPLES	IKAN	PVFD	YQLYFQEPGVAEAELEQN	399	
Rat sEH (P80299)	PLMP	PNP	EV	SPMEV	IRSI	PVFNY	YQLYFQEPGVAEAELEKN	398	
Mouse liver sEH (AAA37555)	PFM	PPD	PDV	SPMKV	IRSI	PVFNY	YQLYFQEPGVAEAELEKN	398	
Mouse ovary sEH (AAM28238)	PFM	PPD	PDV	SPMKV	IRSI	PVFNY	YQLYFQEPGVAEAELEKN	380	
Human sEH (JC4711)	LSRTFKS	LFRA	SD	ESVLSM-HK	VCEA	GG	LFVNSPEEPSLS	438	
Rat sEH (P80299)	MSRTFKS	FFRT	SD	DMGLLTVNK	ATEM	GG	ILVGTPEDPKVS	438	
Mouse liver sEH (AAA37555)	MSRTFKS	FFRA	SD	ETGFI AVHK	ATEI	GG	ILVNTPEDPNLS	438	
Mouse ovary sEH (AAM28238)	MSRTFKS	FFRA	SD	ETGFI AVHK	ATEI	GG	ILVNTPEDPNLS	420	
Human sEH (JC4711)	RMV	TEEEI	QFYV	QQFKKS	GFRG	PLN	WYRNMER	NWKWACKS	478
Rat sEH (P80299)	KIT	TEEEI	EYYI	QQFKKS	GFRG	PLN	WYRNTER	NWKWSCKA	478
Mouse liver sEH (AAA37555)	KIT	TEEEI	EYYI	QQFKKT	GFRG	PLN	WYRNTER	NWKWSCKG	478
Mouse ovary sEH (AAM28238)	KIT	TEEEI	EYYI	QQFKKT	GFRG	PLN	WYRNTER	NWKWSCKG	460
Human sEH (JC4711)	LGRKIL	I	PALM	VTA	EKDF	PVLV	PQMSQH	MEDWIPHLKRGHI	518
Rat sEH (P80299)	LGRKIL	V	PALM	VTA	EKD	IVLR	PEMSKN	MENWIPFLKRGHI	518
Mouse liver sEH (AAA37555)	LGRKIL	V	PALM	VTA	EKD	IVLR	PEMSKN	MEKWIPFLKRGHI	518
Mouse ovary sEH (AAM28238)	LGRKIL	V	PALM	VTA	EKD	IVLR	PEMSKN	MEKWIPFLKRGHI	500
Human sEH (JC4711)	EDCGHWT	QMD	KPT	EVNQILIKWL	DS	DARN	PPV	VSKM	554
Rat sEH (P80299)	EDCGHWT	QIE	KPA	EVNQILIKWL	KTE	IQNP	SV	TSKI	554
Mouse liver sEH (AAA37555)	EDCGHWT	QIE	KPT	EVNQILIKWL	QTE	VQNP	SV	TSKI	554
Mouse ovary sEH (AAM28238)	EDCGHWT	QIE	KPT	EVNQILIKWL	QTE	VQNP	SV	TSKI	536

Protein sequences obtained from the NCBI database (accession numbers) showing identical (black) and homologous (gray) residues in the mammalian proteins. Sites for primary (†), secondary (‡) and tertiary (°) pharmacophores are indicated above each sequence.

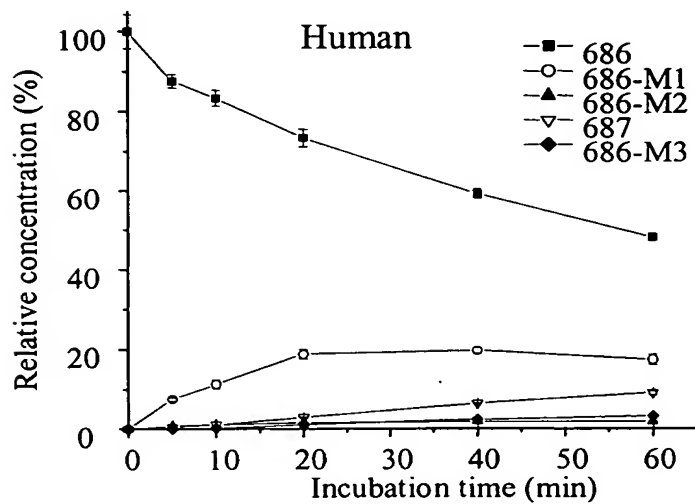
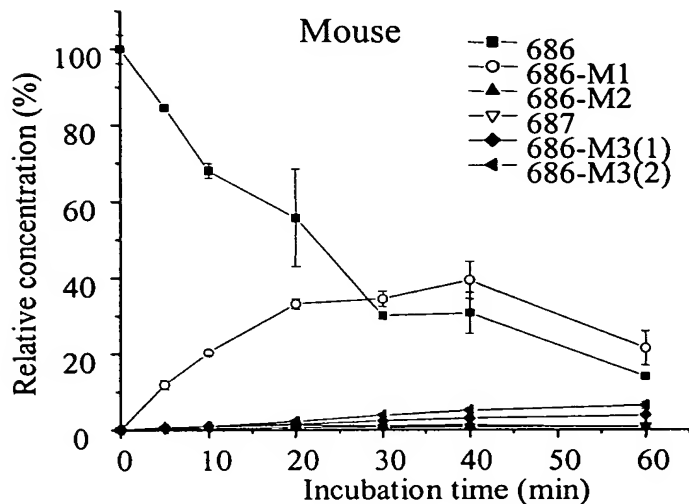
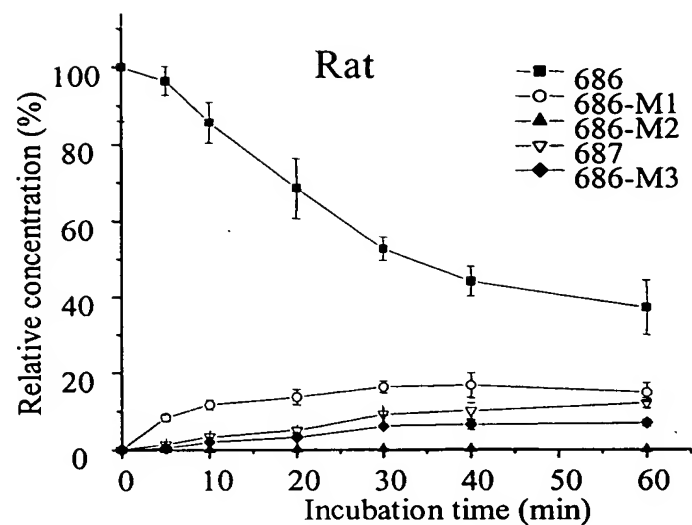
**Figure 6**



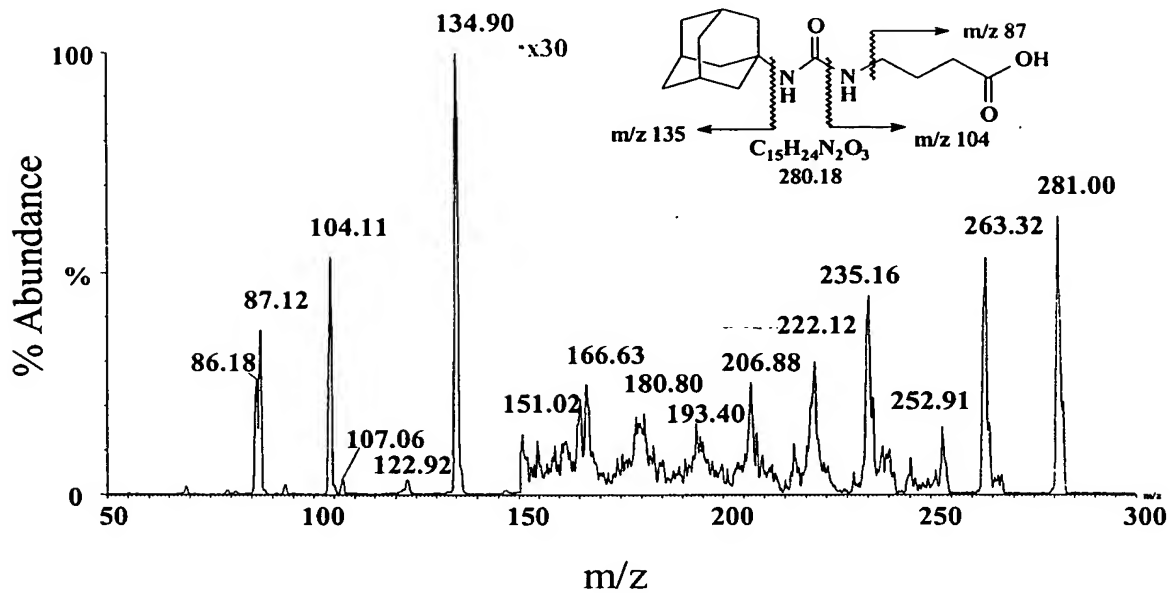
**Figure 7**



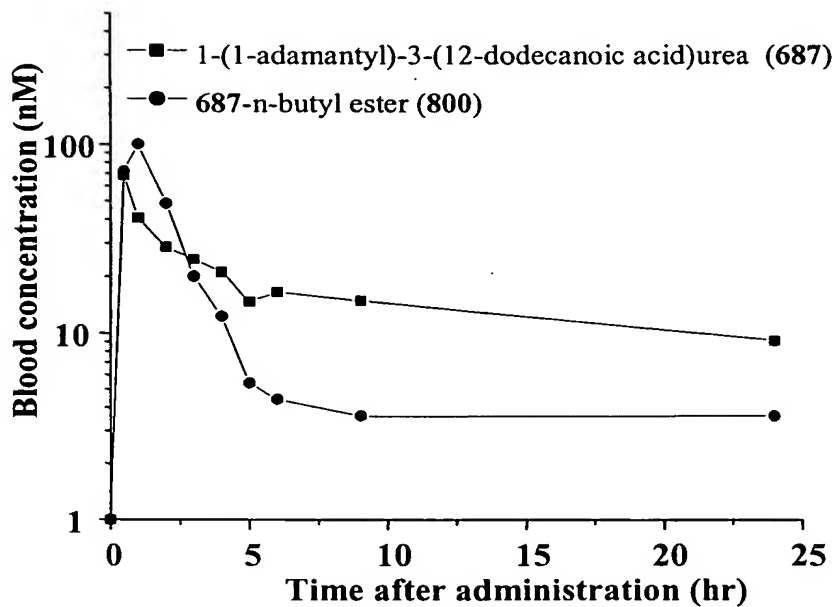
**Figure 8**



**Figure 9**

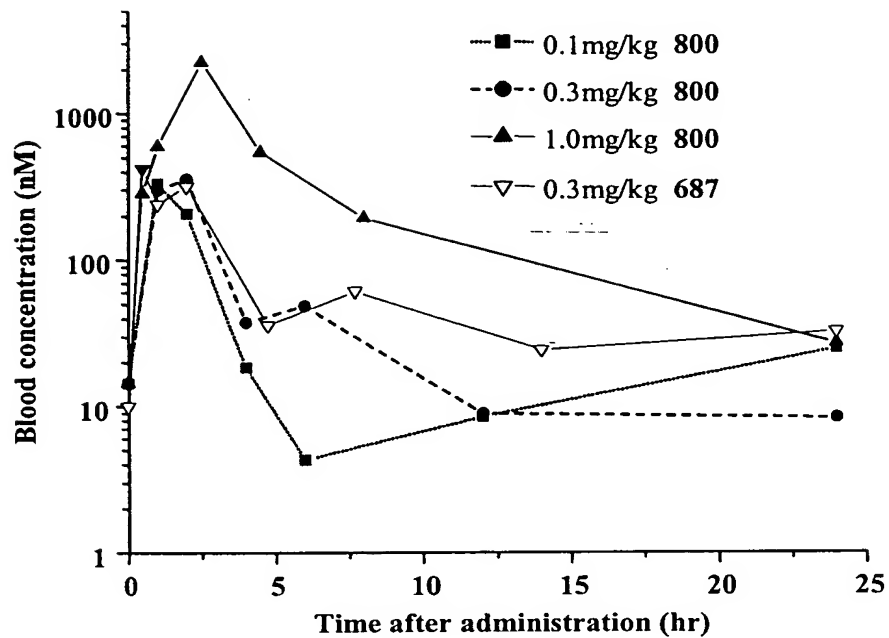


**Figure 10**





**Figure 11**



**Figure 12**

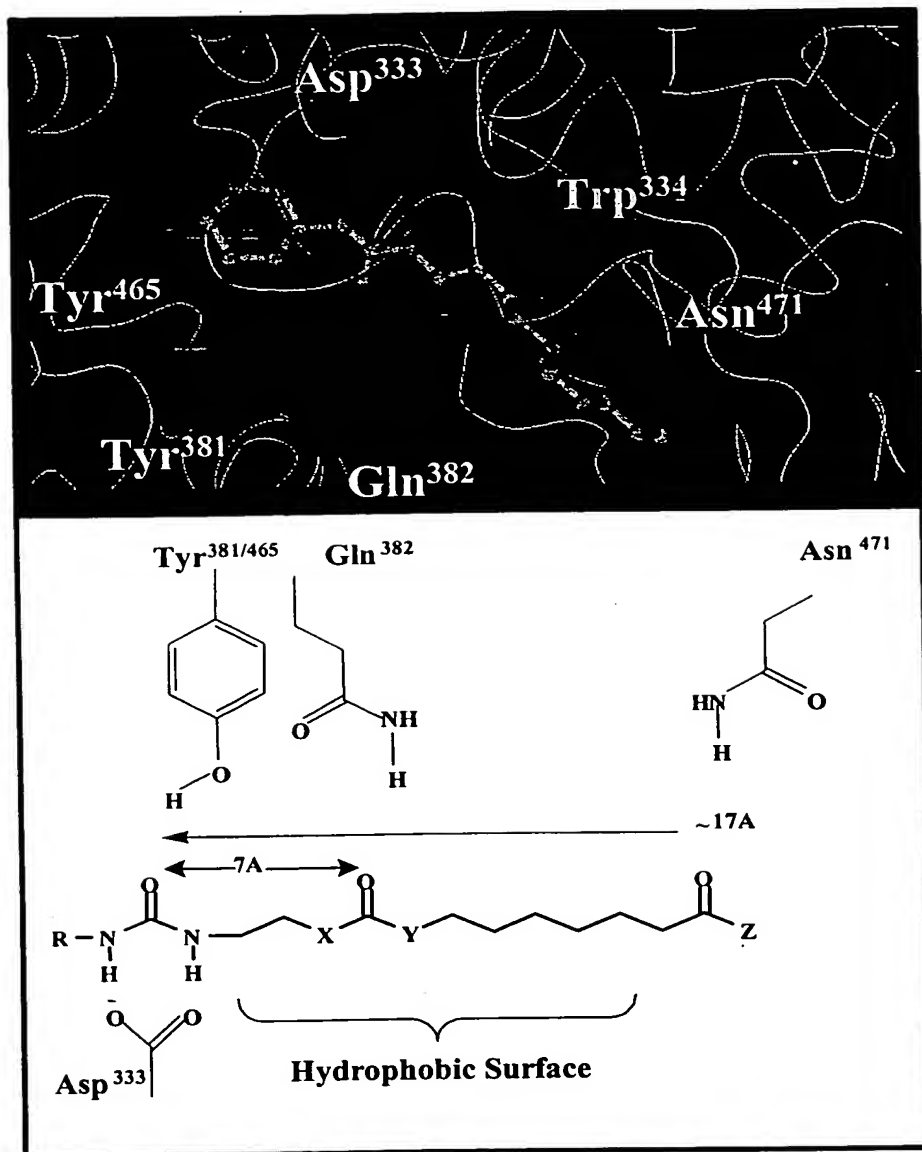
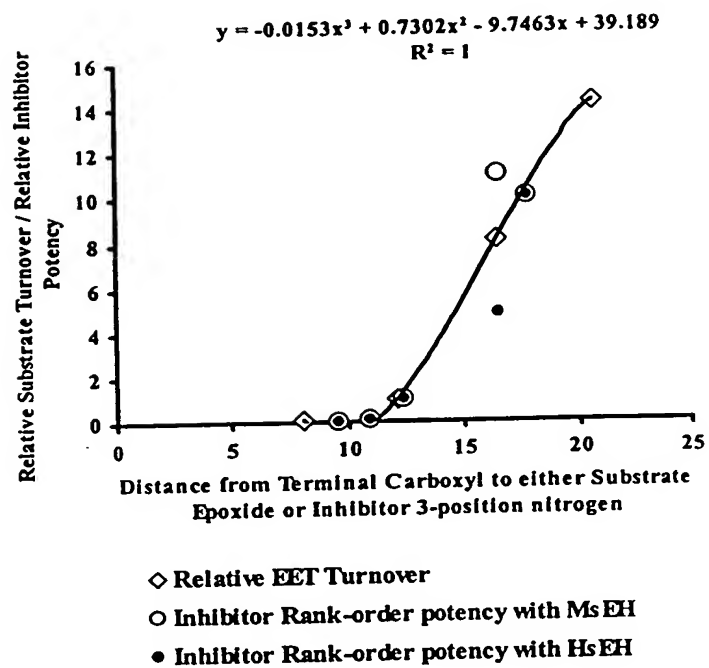


Figure 13



**Figure 14**

